PGI/PTO 18 APR 2005

Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

#### **RULE 63 (37 C.F.R. 1.63)** INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, mailing address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled PIÉZOELECTRIC ELEMENT BASED ON SUPERHIGH-ORIENTED ALUMINUM NITRIDE THIN FILM AND MANUFACTURING METHOD

**THEREOF** 

the specification of which (check applicable box(s)): is attached hereto [] November 30, 2004 as U.S. Application Serial No. 10/516,333 (Atty. Dkt. No. was filed on [X] was filed as PCT International application No. PCT/JP03/06796 May 29, 2003 [X] and (if applicable to U.S. or PCT application) was amended on I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application: Priority Foreign Application(s): Day/Month/Year Filed **Application Number** Country 2002-160568 31/May/2002 Japan I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below. **Application Number** Date/Month/Year Filed I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below: Status: patented Prior U.S./PCT Application(s): Application Serial No. Day/Month/Year Filed pending, abandoned PCT/JP03/06796 29/May/2003 pending I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint Nixon & Vanderhye P.C., telephone number 703-816-4000 (to whom all communications are to be directed) and the attorneys of: Customer Number 23117, individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent. I also authorize Nixon & Vanderhye to add or delete attorneys from that Customer Number, and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s). Inventor's Signature: **AKIYAMA** Morito **Japanese** Inventor: (first) M (last) (citizenship) Saga Japan (state/country) Residence: (city) Tosu-shi C/O NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY KYUSYU Mailing Address: 807-1, Shukumachi Tosu-shi Saga Japan 841-0052 (Zip Code) Inventor's Signature: Date: UENO Naohiro Japanese Inventor: MI (citizenship) (last) (first) Tosu-shi Residence: (city) (state/country) Saga Japan CO NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY KYUSYU Mailing Address: 807-1, Shukumachi Tosu-shi Saga Japan (Zip Code) 841-0052

[X] See attached sheet(s) for additional inventor(s) information!!

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. Page 2	NO. 10/516,333 .	^				(Domes	nic Non-Assigned/i ord
3.	Inventor's Signature:	Hinashi	Ta	teyamo		Date:	March 18, 200.
3. - i)	Inventor:	Hiroshi	, ,	0	TATEYAMA (last)		Japanese (citizenship)
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	(Zip Code)						

## RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, mailing address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PIÉZOELECTRIC ELEMENT BASED ON SUPERHIGH-ORIENTED ALUMINUM NITRIDE THIN FILM AND MANUFACTURING METHOD **THEREOF** the specification of which (check applicable box(s)): is attached hereto [] as U.S. Application Serial No. 10/516,333 (Atty. Dkt. No. was filed on November 30, 2004 [X] PCT/JP03/06796 May 29, 2003 was filed as PCT International application No. [X] and (if applicable to U.S. or PCT application) was amended on I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application: Priority Foreign Application(s): Country Day/Month/Year Filed **Application Number** 31/May/2002 2002-160568 Japan I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below. Date/Month/Year Filed **Application Number** I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below: Status: patented Prior U.S./PCT Application(s): pending, abandoned Day/Month/Year Filed Application Serial No. PCT/JP03/06796 29/May/2003 pending I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint Nixon & Vanderhye P.C., telephone number 703-816-4000 (to whom all communications are to be directed) and the attorneys of: Customer Number 23117, individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent. I also authorize Nixon & Vanderhye to add or delete attorneys from that Customer Number, and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s). Date: Inventor's Signature: 1. AKIYAMA Japanese Morito Inventor: (last) (citizenship) (first) (state/country) Saga Japan Residence: (city) C/O NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY KYUSYU Mailing Address: 807-1, Shukumachi Tosu-shi Saga Japan (Zip Code) 841-0052 Date: Inventor's Signature: Japanese **UENO** Inventor: Naohiro MI (last) (citizenship) (first) Saga Japan (state/country) Residence: (city) Tosu-shi C/O NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY KYUSYU Mailing Address: 807-1, Shukumachi Tosu-shi Saga Japan (Zip Code) 841-0052

## [X] See attached sheet(s) for additional inventor(s) information!!

Serial No.	10/516,333
Page 2	

3.	Inventor's Signature:				Date:	
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5.	Inventor's Signature:	Yoskehiro	Umenchi		Date:	March 25, 2005
	Inventor:	✓ Yoshihiro  (first)	MI	UMEUCHI (last)		Japanese (citizenship)
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6.	Inventor's Signature:	Keiichiro		JINUSHI	Date:	Japanese
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	(Zip Code)	170-0005	ormana kaj rokyo oapan			
7.	Inventor's Signature:				Date:	
	Inventor:	<b>(5.1)</b>		(1004)		(aitimenahin)
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9.	Inventor's Signature:				Date:	<del></del>
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PIEZOELECTRIC ELEMENT BASED ON SUPERHIGH-ORIENTED ALDININUM NITRIDE THIN FILM AND MANUFACTURING METHOD

			THEREOF				
the speci	fication of which (check	applicable box(s)):					
	attached hereto						
	vas filed on No	ovember 30, 2004	as U.S. Application Serial No	o. 10/516,333	(Atty. Dkt. No )		
[X] w	as filed as PCT Internat	ional application No.	PCT/JP03/06796	on May 29,	2003		
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amendmed in certificate application	ent referred to above. I a n 37 C.F.R. 1.56. I heret e listed below and have a on on which priority is cla oreign Application(s):	acknowledge the duty to one of the control of the c	ntents of the above identified spedisclose to the Patent Office all intendition of the Patent Office all intendition of the patent of the pate	nformation known to me to of any foreign application nventor's certificate having	o be material to patentability as (s) for patent or inventor's g a filing date before that of the		
•	Application Number	er	Country		Day/Month/Year Filed		
	2002-160568		Japan		31/May/2002		
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint Nixon & Vanderhye P.C., telephone number 703-816-4000 (to whom all communications are to be directed) and the attorneys of: <b>Customer Number 23117</b> , individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent. I also authorize Nixon & Vanderhye to add or delete attorneys from that Customer Number, and to act and							
rely solei	y on instructions directly	communicated from the	person, assignee, attorney, firm,	or other organization sen	ding instructions to Nixon &		
Vanderhy	e on behalf of the owne	r(s).					
1.	Inventor's Signature:			Dat	ρ.		
1.	Inventor:	Morito		AKIYAMA	Japanese		
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2.	Inventor's Signature: Inventor:	Naohiro		UENO	Japanese		
	inventor.	(first)	MI	(last)	(citizenship)		
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# [X] See attached sheet(s) for additional inventor(s) information!!

Serial No. 10/516,333 Page 2

3.	Inventor's Signature: Inventor:	Hiroshi (first)	MI	TATEYAMA (last)	_ Date:	Japanese (citizenship)
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	(Zip Code)					

FOR ADDITIONAL INVENTORS, check box [ ] and attach sheet with same information and signature and date for each.